

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for executing at least one of an alarm process or an alert escalation process within a healthcare system comprising the steps of:

causing a medical device ~~to-generate~~ generating a signal that at least one of an alarm or an alert condition exists for a specific patient;

causing the medical device ~~to-send~~ sending the signal to a central computer;

causing the central computer ~~to-determine~~ determining if a first clinician's device is active; and

if the central computer determines that the first clinician's device is active:

causing the central computer ~~to-relay~~ relaying the signal relating to the alarm or alert condition to the first clinician's device;

causing the first clinician's device ~~to-indicate~~ indicating the alarm or alert condition by displaying the specific patient's name and an alarm or alert icon related to the alarm or alert condition on a list interface which contains a list of all patients the first clinician is responsible for, including the specific patient, for which signals relating to alarm or alert conditions have been sent to the first clinician's device and one of a plurality of different alarm or alert icons ~~related to each respective patient on the list for each patient~~, wherein each patient name and corresponding icon is a hyperlink to a respective pump alarm details interface screen, different alarm or alert icons are associated with different patient or first clinician tasks and each hyperlink is associated with a different color or shading to differentiate the level of urgency of attention required for each of the patients on the list;

causing the central computer ~~to-operate~~ operating a timer; and

causing the central computer ~~to-escalate~~ escalating the signal if a response to the alarm or alert condition is not received prior to a predefined timer limit, wherein

escalating the signal includes transmitting the signal to a second clinician's device and while maintaining the signal sent to the first clinician's device.

Claim 2 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the central computer to ~~relay~~ relaying the signal to the first clinician's device comprises sending a wireless signal to the first clinician's device.

Claim 3 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the central computer to ~~transmit~~ transmitting the signal to the first clinician's device comprises sending the signal to one of a mobile phone, a pager, an e-mail address, an instant messaging receiver or a conventional telephone.

Claim 4 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the central computer to ~~transmit~~ transmitting the signal to the first clinician's device comprises sending the signal simultaneously to one of a mobile phone, a pager, an e-mail address, an instant messaging receiver or a conventional telephone.

Claim 5 (currently amended): The method of claim 1, further comprising the step of ~~causing the~~ first central computer to ~~transmit~~ transmitting the signal to a charge clinician.

Claim 6 (original): The method of claim 1, wherein the signal of the alert or alarm condition transmitted to the clinician's device comprises at least one of a condition description, a time, a date, a clinician identification, a patient name, a room identification, a bed identification and a prescription.

Claim 7 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the central computer to ~~escalate~~ escalating the signal comprises providing a visual warning on the first clinician's device.

Claim 8 (previously presented): The method of claim 7, wherein the visual warning is provided in at least one of a text or symbol warning on the first clinician's device.

Claim 9 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the first clinician's device ~~to indicate~~ indicating the alarm or alert condition comprises providing a visual and audible warning at the first clinician's device.

Claim 10 (currently amended): The method of claim 9, further comprising the step of ~~allowing~~ the first clinician's device enabling the audible signal on the first clinician's device to be silenced.

Claim 11 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the first clinician's device ~~to indicate~~ indicating the alarm or alert condition comprises providing a vibration notification.

Claim 12 (currently amended): The method of claim 1, further comprising the step of ~~causing~~ the central computer ~~to suspend~~ suspending the alarm or an alert escalation process following a response within the timer limit.

Claim 13 (previously presented): The method of claim 12, wherein the response comprises at least one of responding on the first clinician's device or responding at a medical device exhibiting the alarm or alert condition.

Claim 14 (currently amended): The method of claim 1, wherein the step of ~~causing~~ the central computer ~~to escalate~~ escalating the signal if a response to the indicated condition is not received prior to a predefined timer limit.

Claims 15 and 16 (cancelled).

Claim 17 (previously presented): The method of claim 1, wherein the response comprises at least one of responding on either the first or second clinician's device, or responding at a medical device exhibiting the alarm or alert condition.

Claim 18 (currently amended): The method of claim 1, further comprising the step of ~~causing the central computer to clear~~ clearing all notifications when a response is provided at the medical device.

Claim 19 (cancelled).

Claim 20 (currently amended): The method of claim 1, further comprising the step of ~~causing the central computer to transmit~~ transmitting the signal to the second clinician's device if the first clinician's device is not active.

Claim 21 (currently amended): The method of claim 1, further comprising the step of ~~causing the central computer to transmit~~ transmitting the signal to a charge clinician if the first clinician's device is not active.

Claim 22 (currently amended): The method of claim 1, further comprising the step of ~~causing the central computer to determine~~ determining whether communication to the first clinician's device is lost.

Claim 23 (currently amended): The method of claim 22, further comprising the step of ~~causing the central computer to transmit~~ transmitting the signal to the second clinician's device if communication to the first clinician's device is lost.

Claim 24 (currently amended): The method of claim 23, further comprising the step of the second clinician's device terminating the alarm or alert condition ~~on the second clinician's device~~ when the condition is resolved.

Claim 25 (currently amended): The method of claim 1, further comprising the steps of:

causing the medical device ~~to generate~~ generating a second signal relating to a second alarm or alert condition for the same patient;

causing the medical device ~~to send~~ sending the second signal to the first central computer;

causing the central computer ~~to relay~~ relaying the signal to the first clinician's device;

causing the first clinician's device ~~to indicate~~ indicating the second alarm or alert condition;

causing the central computer ~~to operate~~ operating a timer; and,

causing the first clinician's device ~~to escalate~~ escalating the signal relating to the second alarm or alert condition if a response to the second alarm or alert condition is not received prior to a predefined timer limit.

Claim 26 (currently amended): The method of claim 25, wherein the step of causing the central computer ~~to escalate~~ escalating the signal relating to the second alarm or alert condition further comprises the step of causing the central computer ~~to transmit~~ transmitting the signal to the second clinician's device.

Claim 27 (currently amended): The method of claim 1, further comprising the steps of:

causing a second medical device ~~to generate~~ generating a second signal that a second alarm or an alert condition exists for a second patient;

causing the second medical device ~~to send~~ sending the second signal to the central computer;

causing the central computer ~~to relay~~ relaying the ~~third~~ second signal to the first clinician's device;

causing the first clinician's device ~~to indicate~~ indicating the second alarm or alert condition on the clinician's device;

causing the central computer ~~to operate~~ operating a timer; and,

causing the central computer ~~to escalate~~ escalating the signal if a response is not received prior to a predefined timer limit.

Claim 28 (currently amended): The method of claim 27, wherein the step of causing the central computer ~~to escalate~~ escalating the second signal further comprises the step of causing the central computer ~~to relay~~ relaying the second signal to the second clinician's device.

Claim 29 (cancelled).

Claim 30 (currently amended): The method of claim 1, further comprising the step of the first clinician's device providing a communication lost message ~~on the first clinician's device~~ when communication from the central computer or medical device is lost.

Claim 31 (previously presented): The method of claim 1, wherein the first clinician's device is a personal digital assistant.

Claim 32 (original): The method of claim 2, wherein the wireless signal is a wireless communication link that operates within a radio frequency.

Claim 33 (original): The method of claim 1, wherein there is a many-to-many relationship between first clinicians and patients.

Claim 34 (original): The method of claim 1, wherein there is a many-to-many relationship between first clinicians and charge clinicians.

Claim 35 (original): The method of claim 12, further comprising the step of recording data concerning the alarm or alert condition.

Claim 36 (original): The method of claim 12, wherein the data recorded comprises at least one of information about the alarm or alert, an identification of the clinician responsible for responding to the alarm or alert, and a time of the alarm or alert condition.

Claim 37 (currently amended): A method for executing at least one of an alarm process or an alert escalation process within a healthcare environment comprising the steps of:

causing a medical device ~~to generate~~ generating a signal that at least one of an alarm or an alert condition exists for a specific patient;

causing the medical device ~~to send~~ sending the signal to a central computer;

causing the central computer ~~to relay~~ relaying the signal relating to the alarm or alert condition to a first clinician's device;

~~causing the central computer to indicate~~ indicating the alarm or alert condition by displaying the specific patient's name and an alarm or alert icon related to the alarm or alert condition on a list interface which contains a list of all patients the first clinician is responsible for, including the specific patient, for which signals relating to alarm or alert conditions have been sent to the first clinician's device and one of a plurality of different alarm or alert icons ~~related to each respective patient on the list for each patient~~, wherein each patient name and corresponding icon is a hyperlink to a respective pump alarm details interface screen, different alarm or alert icons are associated with different patient or first clinician tasks and each hyperlink is associated with a different color or shading to differentiate the level of urgency of attention required for each of the patients on the list;

causing the central computer ~~to operate~~ operating a timer; and

causing the central computer ~~to relay~~ relaying the signal relating to the alarm or alert condition to a second clinician's device and elevating the signal sent to the first clinician's device by ~~causing~~ instructing the first clinician's device to use ~~of~~ a feature selected from the group consisting of: (a) a larger font, and (b) a flashing display.

Claim 38 (previously presented): The method of claim 37, wherein the first and second clinicians' devices are wireless personal digital assistants.

Claim 39 (currently amended): The method of claim 37, wherein the step of ~~causing~~ the central computer ~~to-relay~~ relaying the signal relating to the alarm or alert condition to the second clinician's device is conducted if a response to the alarm or alert condition is not received prior to a predefined timer limit.

Claim 40 (currently amended): The method of claim 37, wherein the step of ~~causing~~ the central computer ~~to-relay~~ relaying the signal relating to the alarm or alert condition to the second clinician's device is conducted if the first clinician's device is not active.

Claim 41 (currently amended): The method of claim 37, wherein the step of ~~causing~~ the central computer ~~to-relay~~ relaying the signal relating to the alarm or alert condition to the second clinician's device is conducted if communication to the first clinician's device is lost.

Claim 42 (currently amended): The method of claim 37, further comprising the step of ~~causing~~ the central computer ~~to-relay~~ relaying the signal to a charge clinician.

Claim 43 (previously presented): The method of claim 37, further comprising the step of checking preconditions prior to causing the central computer to relay the signal to the first clinician's device.

Claim 44 (original): The method of claim 43, wherein the step of checking preconditions comprises at least one of the steps of:

- associating the patient with a medical device;
- associating the patient with a clinician and identifying the clinician as a first clinician;
- associating the first clinician with a clinician's device; and,
- establishing a relationship between the patient, the medical device, the first clinician and the first clinician's device.

Claim 45 (original): The method of claim 37, further comprising the step of providing for a charge clinician to enable the escalation process.

Claim 46 (previously presented): The method of claim 37, further comprising the step of providing for a second clinician different than the first clinician to disable the escalation process.

Claim 47 (currently amended): The method of claim 37, further comprising the step of ~~causing the central computer to check~~ checking preconditions prior to transmitting the signal to the second clinician's device.

Claim 48 (currently amended): The method of claim 47, wherein the step of ~~causing the central computer to check~~ checking preconditions comprises the step of determining if the second clinician is assigned.

Claim 49 (previously presented): The method of claim 37, further comprising the step of terminating the signal relating to the alarm or alert condition to the first and second clinicians' devices after the alarm or alert condition is cleared.

Claim 50 (original): The method of claim 37, wherein the step of indicating the alarm or alert condition on the clinician's device comprises providing for setting an audible alarm.

Claim 51 (original): The method of claim 50, further comprising the step of silencing the audible alarm when an acknowledgment is received from the clinician's device.

Claim 52 (currently amended): The method of claim 37, further comprising the step of ~~causing the central computer to terminate~~ terminating the escalation process for the specific alarm or alert condition after the condition is cleared at a medical device exhibiting the alarm or alert condition.

Claim 53 (currently amended): A system for escalating an alarm or alert condition, comprising:

a medical device having an alarm/alert module that identifies the existence of at least one of an alarm or alert condition related to a specific patient; and

a processor having software that receives a signal from the alarm/alert module relating to the alarm or alert condition, determines if a first clinician's device is active and sends an alarm or alert condition to the first clinician's device if the first clinician's device is active, the processor further having a timer module that sets a timer limit;

the first clinician's device having a receiver that receives the alarm or alert condition signal from the processor, the first clinician's device further having a display to display text or ~~an icon~~ one of a plurality of different icons representative of the alarm/alert condition signal and the specific patient's name on a list interface which contains a list of all patients the first clinician is responsible for, including the specific patient, for which signals relating to alarm or alert conditions have been sent to the first clinician's device and the alarm or alert icons related to each respective patient on the list, wherein each patient name and corresponding icon is a hyperlink to a respective pump alarm details interface screen, different alarm or alert icons are associated with different patient or first clinician tasks for each patient and each hyperlink is associated with a different color or shading to differentiate the level of urgency of attention required for each of the patients on the list, and a speaker to provide an audible alarm or alert representative of the received alarm/alert condition signal;

wherein the processor: (i) escalates the alarm or alert condition signal if no response to the alarm or alert condition signal is received from either an input device at the first clinician's device or an input device at the medical device within the timer limit, and (ii) simultaneously transmits the signal to a second clinician's device.

Claim 54 (original): The system of claim 53, wherein the receiver on the first clinician's device is a wireless receiver.

Claim 55 (original): The system of claim 53, wherein the processor has a memory, the memory storing preconditions.

Claim 56 (original): The system of claim 53, wherein the preconditions comprise at least one of a clinician and a patient association, an association for the patient and a medical device, an association for the clinician and the clinician's device.

Claim 57 (original): The system of claim 53, further comprising a transmitter that sends the alarm or alert condition signal from the processor to the receiver of the first clinician's device.

Claim 58 (original): The system of claim 53, wherein the transmitter sends the alarm or alert condition signal to from the processor to a second clinician's device when no response to the alarm or alert condition signal is received from either an input device at the first clinician's device or an input device at the medical device within the timer limit.